CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

- 1 1. A method of operating a motion video decoder
- 2 for decoding compressed image data, said method
- 3 including steps of
- 4 determining a frame switch point in accordance
- 5 with a signal corresponding to completion of
- 6 decoding of a previous frame, and
- 7 synchronizing said motion video decoder with a
- 8 bottom border of a scaled image.
- A method as recited in claim 1, comprising
 further steps of
- 3 testing spill buffer capacity responsive to
- 4 said signal to produce a test result, and
- 5 controlling scaling in a decoding path of said
- 6 decoder and altering decoder latency in response to
- 7 said test result.
- 1 3. A method as recited in claim 2, including the
- 2 further step of
- 3 reconfiguring a frame buffer to accommodate a
- 4 increased latency of motion video data scaled in
- 5 said decoding path.

- 1 4. A method as recited in claim 3, including the
- 2 further step of
- 3 continuously scaling a motion video image from
- 4 said motion video data scaled in said decodeing
- 5 path.
- 1 5. A method as recited in claim 4, wherein said
- 2 continuously scaling step is performed by
- 3 interpolation.
- 1 6. A method as recited in claim 1, wherein decoder
- 2 to display latency of reference motion video images
- 3 is 1.5 frames and latency of interpolated motion
- 4 video images is 0.5 frames.
- 1 7. A method as recited in claim 2, wherein said
- 2 spill buffer has a capacity equal to or less than
- 3 0.5 fields.
- 1 8. A method as recited in claim 2, wherein said
- 2 spill buffer has a capacity equal to or less than
- 3 one field.
- 1 9. A method of operating a motion video decoder
- 2 comprising steps of
- 3 testing spill buffer capacity responsive to a
- 4 signal to produce a test result, and
- 5 controlling scaling in a decoding path of a
- 6 decoder and altering decoder latency in response to
- 7 said test result.

- 1 10. A method as recited in claim 9, including the
- 2 further step of
- 3 reconfiguring a frame buffer to accommodate a
- 4 increased latency of motion video data scaled in
- 5 said decoding path.
- 1 11. A method as recited in claim 10, including the
- 2 further step of
- 3 continuously scaling a motion video image from
- 4 said motion video data scaled in said decodeing
- 5 path.
- 1 12. A method as recited in claim 11, wherein said
- 2 continuously scaling step is performed by
- 3 interpolation.
- 1 13. A method as recited in claim 9, wherein decoder
- 2 to display latency of reference motion video images
- 3 is 1.5 frames and latency of interpolated motion
- 4 video images is 0.5 frames when said testing step
- 5 indicates spill buffer capacity is sufficient for
- 6 selected scaling of said motion video.
- 1 14. A method as recited in claim 9, wherein said
- 2 spill buffer has a capacity equal to or less than
- 3 0.5 fields.
- 1 15. A method as recited in claim 10, wherein said
- 2 spill buffer has a capacity equal to or less than
- 3 one field.